



Form PTO-1449			Docket Number (Optional) 4502US		Application Number 09/841,451	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)			Applicant Mace et al.			
			Filing Date April 24, 2001		Group Art Unit 3736	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	RE 31,832	02/1985	Samulski			
	RE 31,879	05/1985	Lübbbers et al.			
	RE 33,064	09/1989	Carter et al.			
	2,484,217	10/1949	Gardenier			
	2,706,409	04/1955	Preston			
	2,950,237	08/1960	Sharp et al.			
	3,410,264	11/1968	Frederik			
	3,429,667	02/1969	Hart et al.			
	3,449,954	06/1969	Brown			
	3,581,565	06/1971	Dieterich			
M	3,590,473	07/1971	Carlson			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO
M	699939	11/1953	U.K.			
	2032118	04/1980	U.K.			
	2052074	01/1981	U.K.			
	2 538 550	06/1984	France			X
	2 132 348	07/1984	Great Britain			X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
M		Bacon, J. R., Demas, J. N.; "Determination of Oxygen Concentrations by Luminescence Quenching of a Polymer-Immobilized Transition-Metal Complex;" pgs. 2780-2785, <u>Analytical Chemistry</u> , Vol. 59, No. 23, December 1, 1987.				
		"Basics of Auto Referencing," Sen. Sym., pp. 7-9 through 7-35, undated.				
		Blazewicz, Perry, et al., "A Novel Fast Oxygen Sensor with On-Airway, Breath-to-Breath Capability," Vol. 15, Nos. 3-4, pp. 236-237, May 1999.				
EXAMINER Nasser			DATE CONSIDERED 4/7/03			
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Form PTO-1449

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Docket Number (Optional)
4502USApplication Number
09/841,451Applicant **Mace et al.**Filing Date **April 24, 2001**Group Art Unit **3736**
U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	3,612,866	10/1971	Stevens			
	3,635,756	01/1972	Shepard et al.			
	3,663,833	05/1972	Pao et al.			
	3,725,658	04/1973	Stanley et al.			
	3,726,271	04/1973	Mondshine et al.			
	3,734,691	05/1973	Kukla et al.			
	3,734,862	05/1973	Maulding			
	3,752,171	08/1973	Ayre			
	3,830,222	08/1974	Chance			
	3,889,536	06/1975	Sylvester			
M	3,910,113	10/1975	Brown			

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
M	1509744	09/1989	Russia				
	DE 196 17 738 C1	06/1997	Germany				
	WO 00/07498	02/2000	PCT				
M	WO 00/13003	03/2000	PCT			X	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

M		Burte, Edmund P., et al., "Microsystems for Measurement and Dosage of Volatile Anesthetics and Respirative Gases in Anesthetic Equipment," (undated).
		"Capnostat II CO2 Sensor," <u>CO² SMO User's Manual</u> , page 16, April 27, 1993.
M		Datex Brochure, "See Compliance at a Glance," undated.

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<i>[initials]</i>	3,937,082	02/1976	Schilling	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	3,981,193	09/1976	Goulet	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,003,707	01/1977	Lübbbers et al.	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,036,054	07/1977	Goulet	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,047,521	09/1977	Kramer et al.	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,083,245	04/1978	Osborn	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,154,100	05/1979	Harbaugh et al.	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,163,390	08/1979	Rodder	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,170,134	10/1979	Nathan	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,223,226	09/1980	Quick et al.	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	4,245,507	01/1981	Samulski	<i>[initials]</i>	<i>[initials]</i>	

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<i>[initials]</i>	WO 00/70330	11/2000	PCT	<i>[initials]</i>	<i>[initials]</i>		
<i>[initials]</i>	WO 01/08554 A1	02/2001	PCT	<i>[initials]</i>	<i>[initials]</i>	X	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>[initials]</i>	Flanagan, C.T., "A Novel Oxigraphy System Based on Oxygen Luminescence Quenching," <i>Proceedings of the Rocky Mountain NASA Space Consortium, April 1999.</i>
<i>[initials]</i>	Flanagan, C.T., "An Indirect Calorimetry System Based On a Novel Oxygen Luminescence Quenching Sensor," Ph.D. Dissertation Proposal presented to the Dept. of BioEngineering, Univ. of Utah, Sept. 22, 1999.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
K	4,272,485	06/1981	Lübbers			
	4,321,057	03/1982	Buckles			
	4,345,463	08/1982	Wilson et al.			
	4,346,584	08/1982	Boehringer			
	4,372,170	02/1983	Dehart et al.			
	4,399,099	08/1983	Buckles			
	4,403,514	09/1983	Osborn			
	4,437,772	03/1984	Samulski			
	4,476,707	10/1984	Burns et al.			
	4,476,870	10/1984	Peterson et al.			
n	4,481,829	11/1984	Shortridge			

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

M		Flow Measurement, 1991, pp. 124, 125, 474, 475, 477, 500, 558.
		Gewehr, P. M., Delpy, D. T.; "Optical oxygen sensor based on phosphorescence lifetime quenching and employing a polymer immobilised metalloporphyrin probe, Part 1 Theory and instrumentation;" pgs. 1-10, Medical & Biological Engineering & Computing, January 1993.

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<div style="float: right; border: 1px solid black; padding: 2px;"> OIPE SEP 28 2001 </div>							
Applicant Mace et al.				Filing Date April 24, 2001			
				Group Art Unit 3736			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4,542,987	09/1985	Hirschfeld				
	4,546,655	10/1985	Victor				
	4,568,518	02/1986	Wolfbeis et al.				
	4,581,942	04/1986	Ogura et al.				
	4,581,945	04/1986	Rusz				
	4,587,101	05/1986	Marsoner et al.				
	4,608,344	08/1986	Carter et al.				
	4,652,143	05/1987	Wickersheim et al.				
	4,657,736	04/1987	Marsoner et al.				
	4,682,895	07/1987	Costello				
	4,730,112	03/1988	Wong				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Transition	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Gewehr, P. M., Delpy, D. T.; "Optical oxygen sensor based on phosphorescence lifetime quenching and employing a polymer immobilised metalloporphyrin probe, Part 2 Sensor membranes and results;" pgs. 11-21, <u>Medical & Biological Engineering & Computing</u> , January 1993.					
		Kolle, C., O'Leary, P.; "Optical Oxygen Sensor for Breath-Gas Analysis;" <u>Report Institute for Chemical and Optical Sensors</u> ; Report No: COS 95.001, February 1995.					
		Lutter, N., et al., "Calibration of an Infrared Multicomponent Analyzer for Mainstream Gas Monitoring," <u>Anesthesiology</u> , Vol. 89, No. 3A, p. A945, Sept. 1998.					
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Docket Number (Optional)

4502US

Application Number

09/841,451

Applicant **Mace et al.**Filing Date **April 24, 2001**Group Art Unit **3736**

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	4,750,837	06/1988	Gifford et al.			
	4,752,115	06/1988	Murray, Jr. et al.			
	4,775,514	10/1988	Barnikol et al.			
	4,810,655	03/1989	Khalil et al.			
	4,822,899	04/1989	Groves et al.			
	4,823,615	04/1989	Taha			
	4,849,172	07/1989	Yafuso et al.			
	4,859,858	08/1989	Knodle et al.			
	4,859,859	08/1989	Knodle et al.			
	4,861,727	08/1989	Hauenstein et al.			
	4,892,383	01/1990	Klainer et al.			

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

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M		Lutter, N., et al., "Cross-Interferences of Volatile Anesthetic Agents on the Measurement of O2 Utilizing an Optical Fiber Sensor Based on Luminescence Quenching," <i>2000 ASA Meeting Abstracts</i> , No. A-565, Oct. 17, 2000.
		Miller, R.W., <i>Flow Measurement Engineering Handbook</i> , 1983, 9 pages.
AS		Miller, R.W., <i>Flow Measurement Engineering Handbook</i> , 1989, 16 pages (unnumbered).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
na	4,892,941	01/1990	Dolphin et al.			
	4,895,156	01/1990	Schulze			
	4,914,720	04/1990	Knodle et al.			
	4,919,891	04/1990	Yafuso et al.			
	4,920,808	05/1990	Sommer			
	4,954,318	09/1990	Yafuso et al.			
	4,957,007	09/1990	Gray			
	4,958,075	09/1990	Mace et al.			
	4,968,632	11/1990	Brauer et al.			
	4,973,718	11/1990	Buchler et al.			
na	4,989,456	02/1991	Stupecky			

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

na	Moreno-Bondi, Maria C., et al., "New Luminescent Metal Complex for pH Transduction in Optical Fiber Sensing: Application to a CO ₂ -Sensitive Device," <i>Proc. SPIE</i> , Vol. 1368, pp. 157-164, March 1991.
	Neurauter, G., et al., "Fiber-Optic Microsensor for High Resolution pCO ₂ Sensing in Marine Environment," <i>Fresenius J Anal Chem</i> , 366(5), pp. 481-7, March 2000.
m	Orr, et al., "A Respiratory Flowmeter Based on a Modified Mainstream CO ₂ Cuvette," <u>Abstract Presented at the Annual Meeting of the Society for Technology in Anesthesia</u> , 3 pages (unnumbered, Feb. 17-19, New Orleans, LA.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
re	5,012,809	05/1991	Shulze			
	5,026,255	06/1991	Carpenter et al.			
	5,030,420	07/1991	Bacon et al.			
	5,034,189	07/1991	Cox et al.			
	5,038,773	08/1991	Norlien et al.			
	5,043,286	08/1991	Khalil et al.			
	5,045,282	08/1991	Kritzman et al.			
	5,047,350	09/1991	Switalski et al.			
	5,061,076	10/1991	Hurley			
	5,067,492	11/1991	Yelderman et al.			
	5,081,041	01/1992	Yafuso et al.			
re	5,088,332	02/1992	Merilainen et al.			

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FOREIGN PATENT DOCUMENTS

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						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

re		Ower, E., et al., "The Characteristics of Pitot and Status Tubes in Incompressible Flow," <u>The Measurement of Air Flow</u> , 1966.
		Rader, Con., "Pneumotachography," The Perkin Elmer Corporation, California Society of Cardiopulmonary Technologies Conference, October 1982.
re		Saklad, Meyer, et al., "Pneumotachography: A New, Low-Dead Space, Humidity-Independent Device," <u>Anesthesiology</u> , Vol. 5, No. 2, August 1979, pp. 149-153.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	5,094,959	03/1992	Allen et al.			
	5,098,659	03/1992	Yim et al.			
	5,111,827	05/1992	Rantala			
	5,127,077	06/1992	Iyer et al.			
	5,128,102	07/1992	Kaneko et al.			
	5,137,026	08/1992	Waterson et al.			
	5,152,287	10/1992	Kane			
	5,153,436	10/1992	Apperson et al.			
	5,173,432	12/1992	Lefkowitz et al.			
	5,188,108	02/1993	Secker			
	5,194,391	03/1993	Nauze et al.			
	5,213,109	05/1993	Susi			

FOREIGN PATENT DOCUMENTS

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						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

M		SentrOxy, "A Rapid Optical Oxygen Sensor for the Lung Function Diagnostics," Sentronic GmbH, http://www.sentronic.de/company
		Sullivan, William J., et al., "Pneumotachography: Theory and Clinical Application," <u>Respiratory Care</u> , Vol. 29, No. 7, July 1984, pp. 736-749.
R		Voraberger, H.S., et al.; "Novel oxygen optrode withstanding autoclavation: technical solutions and performance; pgs. 1-7, <u>Sensors and Actuator B 3679</u> , 2000.

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	Applicant Mace et al.	
	Filing Date April 24, 2001	Group Art Unit 3736

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	5,233,194	08/1993	Mauze et al.	1		
	5,234,835	08/1993	Nestor et al.	1		
	5,242,835	09/1993	Jensen	1		
	5,244,810	09/1993	Gottlieb	1		
	5,251,121	10/1993	Knodle et al.	1		
	5,252,494	10/1993	Walt	1		
	5,261,415	11/1993	Dussault	1		
	5,262,192	11/1993	Nelson et al.	1		
	5,285,783	02/1994	Secker	1		
	5,285,784	02/1994	Seeker	1		
	5,296,706	03/1994	Braig et al.	1		
	5,308,581	05/1994	Lippitsch et al.	1		
2	5,308,771	05/1994	Zhou et al.	1		

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	Applicant Mace et al.	
	Filing Date April 24, 2001	Group Art Unit 3736

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	5,326,585	07/1994	Nelson et al.			
	5,344,810	09/1994	Hirata et al.			
	5,347,843	09/1994	Orr et al.			
	5,379,650	01/1995	Kofoed et al.			
	5,443,075	08/1995	Holscher			
	5,445,160	08/1995	Culver et al.			
	5,503,151	04/1996	Harnoncourt et al.			
	5,511,547	04/1996	Markle et al.			
	5,517,313	05/1996	Colvin, Jr.			
	5,535,633	07/1996	Kofoed et al.			
	5,616,923	04/1997	Rich et al.			
	5,670,097	09/1997	Duan et al.			
	5,693,944	12/1997	Rich			
	5,718,842	02/1998	Papkovsky et al.			

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OTHER DOCUMENTS

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U.S. PATENT DOCUMENTS

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m	5,763,792	06/1998	Kullik			
	5,789,660	08/1998	Kofoed et al.			
	5,804,048	09/1998	Wong et al.			
	5,830,138	11/1998	Wilson			
	5,836,300	11/1998	Mault			
	5,894,351	04/1999	Colvin, Jr.			
	5,910,661	06/1999	Colvin, Jr.			
	5,917,605	06/1999	Colvin, Jr.			
	5,997,818	12/1999	Hacker et al.			
	6,015,715	01/2000	Kirschner et al.			
	6,044,843	04/2000	O'Neil et al.			
	6,102,868	08/2000	Banner et al.			
m	6,203,502	03/2001	Hilgendorf et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <div style="font-size: 1.5em; font-family: cursive;">Nasser</div>	DATE CONSIDERED <div style="font-size: 1.5em; font-family: cursive;">4/7/03</div>
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Substitute for form 1449A/PTO

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Sheet	1	of	2
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Complete if Known

Application Number	09/841,451
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Filing Date	April 24, 2001
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First Named Inventor	Mace et al.
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Group Art Unit	3736
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Examiner Name	Unknown
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Attorney Docket Number 2181-4502US (96-22 C2)

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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	09/841,451
Filing Date	April 24, 2001
First Named Inventor	Mace et al.
Group Art Unit	3736
Examiner Name	Unknown
Attorney Docket Number	2181-45021US (96-22 C2)

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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M		PCT International Search Report of 7/22/02.	

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